

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A computer readable recording medium having a data structure for managing reproduction of video data recorded on the recording medium, comprising:

a data area storing multi-path video data corresponding to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

a navigation information area storing playlists including reproduction information of the multi-path video data,

wherein the number of the playlists is the same as ~~are created as many as~~ the number of the reproduction paths of the multi-path video data.

2. (Currently Amended) The computer readable recording medium of claim 1, wherein each of the playlists is associated with all of ~~data-stream~~ clip files ~~pertaining to~~ for one path of the ~~multiple plurality of~~ reproduction paths.

3. (Cancelled)

4. (Currently Amended) The computer readable recording medium of claim 1, wherein each of the playlists include at least one playitem individually, the includes a plurality of playitems, different playitems included in the different playlists identifies the refer a same clip file referred by containing the common path portion video data section of the plurality of reproduction paths multi-path video data.

5. (Currently Amended) A computer readable recording medium having a data structure for managing reproduction of video data recorded on the recording medium, comprising:

a data area storing multi-path video data corresponding to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

a navigation information area storing a playlist including reproduction information of the multi-path video data,

wherein the playlist includes a plurality of playitems identifying pointing to different video data sections pertaining to clip files for different reproduction paths, respectively.

6. (Currently Amended) The computer readable recording medium of claim 5, wherein the playlist further includes at least one playitem ~~identifying pointing to a~~ the clip file referred by the ~~containing common path portion video data section of the plurality of reproduction paths multi-path video data.~~

7. – 14. (Cancelled)

15. (Currently Amended) A method for recording a data structure for managing reproduction of video data on a recording medium, the method comprising:

recording multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

the plurality of reproduction paths including a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, wherein the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

recording a plurality of playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium,

wherein the number of the playlists is the same ~~are created as many as~~ the number of the reproduction paths of the multi-path video data.

16. (Currently Amended) A method for recording a data structure for managing reproduction of video data on a recording medium, the method comprising:

recording multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

the plurality of reproduction paths including a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, wherein the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,

wherein the first reproduction path and the second reproduction path include a common path portion referring a same clip file; and

recording a playlist including reproduction information of the multi-path video data in a navigation information area on the recording medium,

wherein the playlist includes a plurality of playitems identifying pointing to different video data sections pertaining to clip files for different reproduction paths, respectively.

17. (Cancelled)

18. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data on a recording medium, the apparatus comprising:

~~a drive for driving an optical recording means that records~~ an optical pickup configured to record data on the recording medium;

~~an encoder for encoding multi-path video data; and~~

a controller, operably coupled to the optical pickup, configured to control ~~for~~ ~~controlling the drive optical pickup~~ to record ~~the encoded~~ multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively and a plurality of playlists including reproduction information of the multi-path video data in a navigation information area on the recording medium, such that the number of the playlists is the same ~~are created as many as~~ the number of the reproduction paths of the multi-path video data,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, the first reproduction path not reproduced during reproduction of the second reproduction path and the second reproduction path not reproduced during reproduction of the first reproduction path, and the first reproduction path and the second reproduction path include a common path portion referring a same clip file.

19. (Currently Amended) An apparatus for recording a data structure for managing reproduction of video data on a recording medium, the apparatus comprising:

~~a drive for driving an optical recording means that records~~ an optical pickup configured to record data on the recording medium;

~~an encoder for encoding multi-path video data;~~ and

a controller, operably coupled to the optical pickup, configured to control ~~for~~ ~~controlling the drive optical pickup~~ to record ~~the encoded~~ multi-path video data in a data area on the recording medium so as to correspond to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively and a playlist including reproduction information of the multi-path video data in a navigation information area on the recording

medium, such that the playlist includes a plurality of playitems ~~identifying pointing to~~ different ~~video data sections pertaining to clip files for~~ different reproduction paths, respectively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, the first reproduction path not reproduced during reproduction of the second reproduction path and the second reproduction path not reproduced during reproduction of the first reproduction path, and the first reproduction path and the second reproduction path include a common path portion referring a same clip file.

20. (Cancelled)

21. (Currently Amended) A method for reproducing a data structure for managing reproduction of video data recorded on a recording medium, the method comprising:

~~reproducing~~ reading at least one playlist including reproduction information of multi-path video data ~~from a navigation information area~~ on the recording medium, wherein the multi-path video data corresponds to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively,

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, and the first reproduction path is not reproduced during reproduction of the second reproduction path and the second reproduction path is not reproduced during reproduction of the first reproduction path,

wherein the first reproduction path and the second reproduction path includes a common path portion referring a same clip file;

~~selecting one playlist or one playitem among playitems included in the playlist based on a~~

~~chosen reproduction path; and~~

reproducing selected one of the reproduction paths ~~full or a part of one path~~ of the multi-path video data based on the read reproduction information ~~indicated by the selected playlist or playitem.~~

22. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction of video data recorded on a recording medium, the apparatus comprising:

~~a drive for driving an optical reproducing device~~ an optical pickup configured to reproduce data recorded on the recording medium;

~~a decoder for presenting the reproduced data; and~~

a controller, operably coupled to the optical pickup configured to control ~~for controlling~~ the ~~drive~~ optical pickup to read ~~reproduce~~ at least one playlist including reproduction information of multi-path video data ~~from a navigation information area~~ on the recording medium, wherein the multi-path video data corresponds to a plurality of reproduction paths forming different versions of one title to be reproduced exclusively, and to reproduce selected one of the reproduction paths of the multi-path video data based on the read reproduction information, ~~selecting one playlist or one playitem among playitems included in the playlist based on a chosen reproduction path, and controlling the drive to reproduce full or a part of one path of the multi-path video data indicated by the selected playlist or playitem~~

wherein the plurality of reproduction paths include a first reproduction path forming a first version of one title and a second reproduction path forming a second version of one title, the first reproduction path not reproduced during reproduction of the second reproduction path and the second reproduction path not reproduced during reproduction of the first reproduction path, and the first reproduction path and the second reproduction path include a common path portion

referring a same clip file.

23. (New) The method of claim 15, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

24. (New) The method of claim 15, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

25. (New) The method of claim 16, wherein the playlist further includes at least one playitem identifying the clip file referred by the common path portion of the plurality of reproduction paths.

26. (New) The apparatus of claim 18, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

27. (New) The apparatus of claim 18, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

28. (New) The apparatus of claim 19, wherein the playlist further includes at least one playitem identifying the clip file referred by the common path portion of the plurality of reproduction paths.

29. (New) The method of claim 21, wherein the number of the playlists is the same as the number of the reproduction paths of the multi-path video data.

30. (New) The method of claim 29, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

31. (New) The method of claim 29, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

32. (New) The method of claim 21, wherein the playlist includes a plurality of playitems identifying different clip files for different reproduction paths, respectively.

33. (New) The method of claim 32, wherein the playlist further includes at least one playitem identifying the clip file referred by the common path portion of the plurality of reproduction paths.

34. (New) The apparatus of claim 22, wherein the number of the playlists is the same as the number of the reproduction paths of the multi-path video data.

35. (New) The apparatus of claim 34, wherein each of the playlists is associated with all of the clip files for one path of the plurality of reproduction paths.

36. (New) The apparatus of claim 34, wherein each of the playlists includes a plurality of playitems, different playitems included in the different playlists identifies the same clip file referred by the common path portion of the plurality of reproduction paths.

37. (New) The apparatus of claim 22, wherein the playlist includes a plurality of playitems identifying different clip files for different reproduction paths, respectively.

38. (New) The apparatus of claim 37, wherein the playlist further includes at least one playitem identifying the clip file referred by the common path portion of the plurality of reproduction paths.

<End of Claims Listing>